[Sigh - forgive him...]
AUSTRALIAN NATIONAL AMATEUR RADIO TELEPRINTER SOCIETY
P.O. BOX 860 CROWS NEST NSW

This is the Australian National Amateur Radio Teleprinter Society with our weekly Rtty Broadcast. We transmit on the following frequencies and times :

3.545 MHz	(Plus/minus 5)	0930 UTC	VK2CTD (COL)
7.045 MHz	-3	0030 UTC	VK2CTD (COL)
14.070 MHz	(amtor/fec)	0030 UTC	VK2DPM (ALAN)
14.091 MHz		0030 UTC	VK2DPM (ALAN)
144.850 MHz	(ax25 bbs)		VK2CTD AT VK2WI

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YOU CAN ALSO GET A COPY OF THE BROADCAST ON SUNDAY AFTERNOONS BY CALLING VK2CTD ON 3542 KHZ, USING EITHER AMTOR OR PACTOR MODES. CONNECT TO HIS MAILBOX AND TYPE H FOR HELP. LIST THE MESSAGES AND YOU WILL FIND THE CURRENT CAST LISTED.

Views expressed in this news bulletin are not necessarily those of the Broadcast Officer, the Relay Officers, or of the Society.

A.N.A.R.T.S. News Bulletin 975 7th September 1997

COLS COLUMN

I HAVE THE HONOUR TO BE THE BROADCAST OFFICER THIS WEEK, IF THE CAST DOES NOT LOOK THE SAME AS NORMAL, IT WILL BE THE LACK OF EXPERIENCE ON MY PART. YOU WILL FIND THE IPS REPORT IS RATHER LONGER THAN USUAL. THERE WAS A LOT OF SOLAR/GEOMAGNETIC ACTIVITY DURING THE PERIOD AND I DECIDED TO PUT AS MUCH IN AS POSSIBLE OF THE INFORMATION SENT TO ME BY FAX FROM THE IPS SERVICE. IT MAY HELP YOU DECIDE WHETHER THE NEW CYCLE IS HERE. MY THANKS TO THE THE IPS DUTY FORECASTER FOR HIS HELP AND ADVICE.
IT WAS MY HAPPY DUTY RECENTLY TO SEND A PACKET ON BEHALF OF ANARTS, TO GEORGE VK6GM.
THE OCCASSION WAS TWOFOLD, FIRSTLY, GEORGE'S '94TH' BIRTHDAY AND SECONDLY, HIS FORTHCOMING MARRIAGE TO BETTY IN OCTOBER. GEORGE IS A MEMBER OF THE RAOTC AND RECEIVES THE ANARTS CAST IN W.A.
THIS WEEK I RETURN TO THE 'EARLY TELEGRAPH' SERIES.

IN A PREVIOUS ARTICLE IN THIS SERIES YOU MAY RECALL THAT COOKE AND WHEATSTONE CONSTRUCTED A TELEGRAPH THAT UTILISED NEEDLES WHICH WERE DEFLECTED BY A MAGNETIC FIELD. THEY LATER BUILT A 5 NEEDLE TELEGRAPH WHICH COULD TRANSMIT AND RECEIVE ALL OF THE ALPHA AND NUMERIC CHARACTERS PLUS OTHERS.
AFTER THIS TIME THE TWO MEN BECAME INVOLVED IN DISPUTES BETWEEN THEM WHICH MARRED THE PARTNERSHIP AND THEIR PERSONAL FRIENDSHIP. COOKE PRODUCED EVIDENCE THAT HE HAD CONSTRUCTED OTHER DEVICES THAT WERE NOT WRITTEN IN THEIR PATENTS.
ONE SUCH DEVICE ENABLED MESSAGES TO BE TRANSMITTED BY WHAT COOKE TERMED 'RECIPROCAL COMMUNICATION'. THIS ALLOWED TRAFFIC TO BE PASSED IN EITHER DIRECTION, USING THE SAME TELEGRAPH, ALONG THE SAME WIRES. HOWEVER TWO WAY TRAFFIC WAS NOT ABLE TO BE CARRIED AT THE SAME TIME. THIS WAS A BIG IMPROVEMENT, PREVIOUS TELEGRAPH SYSTEM USED A TRANSMIT AND A RECEIVE DEVICE WITH THEIR OWN SET OF WIRES, AND THE SYSTEM WAS DUPLICATED TO TRANSMIT AND RECEIVE IN THE OPPOSITE DIRECTION. COOKE FIRST USED THIS SYSTEM WHILE AT HEIDELBERG BEFORE HE MET WHEATSTONE.

ANOTHER DEVICE HE CONSTRUCTED, HE CALLED THE 'DETECTOR'. IT CONSISTED OF A NEEDLE INDICATOR, WINDINGS AND CONNECTING WIRES. THIS 'DETECTOR' WAS A TEST INSTRUMENT THAT ALLOWED HIM TEST THE CONTINUITY AND INSULATION OF A TELEGRAPH CIRCUIT. IN COOKE'S WORDS 'I HAD INVENTED THE INSTRUMENT WHICH I CALLED THE DETECTOR BY MEANS OF WHICH INJURIES TO THE WIRES, WHETHER FROM WATER. FRACTURE OR CONTACT ARE EASILY TRACED, AN INSTRUMENT IN PRACTICE WHICH IS NEVER OUT OF MY HAND AND WITHOUT WHICH THE ELECTRICT TELEGRAPH WOULD BE IMPRACTICABLE. NOW DAYS OF COURSE MUCH, MUCH MORE IS KNOWN ABOUT THE DETECTION AND LOCATION OF LINE FAULTS, BUT IT IS INTERESTING WHEN CONSIDERING COOKE BUILT SUCH A DEVICE OVER ONE HUNDRED AND FIFTY YEARS AGO. COOKE WAS OF COURSE SHOWING HIS SUPERIOR KNOWLEDGE OF THE TELEGRAPH TO THAT OF WHEATSTONE AT THE TIME OF HIS WRITING.
MORE NEXT WEEK 73S FOR NOW DE COL VK2CTD.

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Ips Weekly Solar and Geophysical Report
Week ending 4th 5th September

Summary 29th August to 5th September

Date	29	30	31	01	02	03	04
10cm	92	92	96	93	92	93	93
A	15	12	5	6	5	18	19(estimated)
T	32	30	27	30	26	36	36

Solar : Solar flare activity with a M1 flare at 2332 29 Aug with a short fadeout at 2335-2357, another M1 flare at 1230 02 Sep. Solar activity was low on other days and very low on 04 Sep.

Geomagnetic : unsettled on 29 30 Aug, quiet to unsettled 31 Aug, quiet on 01 and 02 Sep, unsettled 03 Sep until 2100, afterwhich minor storm levels were reached, unsettled to active on 04 Sep.

Frequenccies : near predicted monthly values for most of the period. They were enhanced greater than 15 percent at Darwin from 1100-1500 29th Aug. Spread F was observed during the night of 30 Aug at Hobart and Townsville, at Christchurch during the night of 31 Aug. At Darwin they were depressed approx 15 percent 0100-0700 on 01 Sep. Also on 01 and 03 Sep Spread F was observed during the night at Townsville, Hobart and Christchurch. On 04 Sep there were several MUF variations, from 30 percent depressed to 30 percent enhanced at Darwin during their day and close to predicted during their night, 30 percent enhanced to 15 percent depressed during Townsville's local day, 15 percent depressed at Hobart, enhanced 30 to 50 percent during the local day at Christchurch.

Comment by IPS : MUF's varied widely during the period 03/2300 to 04/0600 Sep in association with geomagnetic activity. The geomagnetic activity is believed to be associated with a coronal mass ejection observed at 0130 on 30 Aug.

Forecast for 05 to 11 Sep :

Solar : Predominately low, however, a Solar Region in the South East quadrant of the sun is showing growth.

Geomagnetic : Unsettled early in the week, then increasing to active to minor storm periods during 09-11 Sep due to a coronal hole.

Frequencies : Fair to Good early in week, then conditions are expected to decline towards end of week in association with the geomagnetic activity. Mid to high latitudes are expected to be most affected.

Supplied by the IPS Radio and Space Services.
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VK2SG RTTY DX NOTES FOR WEEK ENDING 29 AUG 97

Our information this week came from: 4X4DX, DJ2BW, DJ3IW and the Central - Europe DX Cluster node DB0SPC, I5FLN and the IK5PWJ Packet Cluster, KB8NW AND THE OPDX Bulletin, OH2BUA, ON6RO, W2JGR and the NJ0M node the Twin-Cities DX Packet Cluster W5KSI, and WX5L. Thank you all for your assistance.

Bandpass
Friday 22
1217-14084 GM0EUA
1221-14082 KP4VP
1236-14082 4X6UO
1358-14085 9K2HN
1417-14080 BV7WB
1425-14084 TA3IO
1429-14090 N2PQE/KH0 QSL JE2HCJ
1445-14079 VY2RO
1522-14081 YI8US
1542-14086 4S7NR
1725-14081 ZA1MH
1913-14086 YI9US
1935-14089 CN8KD
2005-14079 9Q5PA
2125-14084 XT2DP

Saturday 23
0036-14086 ZP5KW
0604-14087 VK3AMK
0813-14081 HB0/SP2FOV
0904-14085 HB0/DL2SBY
1203-14086 YL2DX
1206-14084 ER27A QSL ER3KS
1250-14082 VU2XMX
1352-14085 OY4TN
1409-14089 HB0/SP2FOV
1454-14082 9K2HN
1509-14083 N2PQE/KH0
1549-14081 EU1DX
1622-14081 EA8KG
1626-14087 ER27A
1629-14086 UN7GY
1641-14082 N2PQE/KH0
1732-14081 EA8KK
1735-14085 BV5GQ
1810-14081 VP2EXM QSL DL3XM
1912-14081 UN5PR
1914-14083 BV2KI
1939-14084 ZP5KW

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2001-14080  LU1CIB
2024-14086  LU7HWR
2135-14086  EA8AG
2317-14085  VP2EXM
2349-14083  ER1PK

Sunday 24
0716-14081  OD5NJ
0923-14080  ER27A
0953-14083  4L8A  QSL OZ1HPS
1000-14082  CT3FQ
1010-14082  BV2KI
1204-14083  OA4DHW
1215-14085  A61AN
1217-14081  XE1J
1221-14085  VY2RO
1303-14083  BV7WB
1344-14087  9V1AG
1428-14083  BV2KI
1515-14082  ZS1CM
1531-14081  N2PQE/KHO
1651-14095  W1AW
1653-14087  EA8KK
1810-14084  HF0POL
1842-14085  9G1UW
1855-14088  VP2EXM
1916-14081  UA2AO
2048- 7036  HF0POL
2149-14083  PZ1BS
2158-14090  LU8EKC
2202-14088  ZP5KW
2205-14086  LU9VET
2228-14085  OA4CN
2228-14081  ZP6CC
2234-14084  OY4TN
2257-14080  XE1J
2334-14083  EA8KG

Monday 25
0009-14088  OY3JE
0304-14085  9K2HN
1238-14086  YI1US
1614-14083  YI1US
1733-14080  AL7R
1805-14082  RA2FB
1849-14082  VP2EXM
1935-14083  J6/PA3EWP
1939-14083  9G1UW
1941-14087  OD5NJ
1957-14081  VP3EXM
2006-14085  J6/PA3EWP
2031-14087  4X6UO
2058-14085  ZD7WRG
2339-14085  YL2DX
2352-14088  OY3JE
2353-14083  HB0/SP2FOV

Tuesday 26
0009-14088  OY3JE
0027-14081  OY4JN
0035-14082  KP4VP
0857-14083  BV4ME INVERTED
0114-14087  UN5PR
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0115-14083  OA4BR
0232-14079  ZP5KW
0533-14083  VK9NS
0910-14086  OY3JE
1203-14085  J6/PA3BBP
1308-14080  BV2KI
1327-14080  BV2KI
1356-14081  EX0V
1406-14080  BV2KI
1429-14083  9V1AG
1502-14083  9V1AG
1835-14086  EU7SH
1842-14088  OY4TN
1937-14080  HF0POL
1943-14087  ER27A
2007-14085  YV4WT
2039-14091  9X/RW3AH
2200-14086  OY4TN
2234-14087  HB0/SP2FOV
2313-14089  ZP5KW
2333-14083  ZP5ALI
2351-14087  UX0KN

Wednesday 27
0028-14081  XE1M
0125-14082  UN5PR
0150-14079  ZP5KW
0151-14082  UN5PR
0156-14088  EX0V
0319-14083  UA4AZ
0328-14082  ZL4GO
0656-14077  FO5NL
0757-14086  ER27A
0833-14084  YI1US
0910-14081  RW9FZ
1229-14083  A61AN
1314-14084  XE1J
1402-14086  ER27A
1437-14087  J6/PA3ERC
1649-14083  EX0V
1722-14079  SU1SK
1930-14084  4X6UO
1932-14083  UT0IF
2012-14082  EA8KG
2013-14083  4Z4DX
2025-14088  ZP5ALI
2030-14083  J6/PA3ERC

Thursday 28
0002-14081  HB0/DL2SEY
0111-14087  UN5PR
1225-14082  VK3JW
1229-14083  ER27A

NOTES OF INTEREST:

MAYOTTE FH. Hermann DJ2BW and XYL Margot DL2DK, will be QRV from
Mayotte Island from 9-22 Oct. as FH/DJ2BW and FH/DL2DK.  Hermann
states Low-Band (160/80 meters and RTTY) is preferred.

TAIWAN BV.    Special prefix station BX0CQ will be QRV til 9 Oct
QSL BV8BC.
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KYRGYZSTAN EX. Valery EX0V is active on RTTY. He can be found on 14080khz around 0100-0300, and then from 1200-1800z. QSL N6FF.

The VK2SG RTTY DX Notes can also be found on the Internet at reflector digital-dx at st.rim.or.jp and the OH2BUA Webcluster at URL http://www.clinet.fi/(tilde)jukka/rtty.html.

For next week's bulletin send your bandpass to Jules, W2JGR at W5KSI.(HASH)NOLA.LA.USA.NA, e-mail: w2jgr AT millcomm.com.

REMEMBER, DX DON'T SLEEP. GL DE BOB WB2CJL at W5KSI.(HASH)NOLA.LA.USA.NA or e-mail: wb2cjl at juno.com.

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Excerpts from the ARLD037 DX news.

TUNISIA, 3V. Mashiko is QRV from the 3V8BB club station. His length of stay is unknown. QSL via JF2EZA.

VIETNAM, 3W. Hiro, JA2EZD, is QRV again as 3W6KA. QSL via XW2A.

LESOTHO, 7P. Bob 7P8BO is QRV using CW and SSB. He can generally be found on 30 meters at 1945z, and on 80 meters at 2100z. His length of stay is unknown. QSL via W4YBO.

TAIWAN, BV. Special prefix station BU0DX is QRV and can be found on 20 meters. QSL via BV8BC.

AZORES, CU. Maike, DL4XS, and Dieter, DL3KDV, will be QRV from Sep 1-15 as CU2/homecalls. Look for activity on 160 and 20 mtr's QSL via home calls.

PHILIPPINES, DU. Hans, PA3GKI, is QRV as 4F2DX from Luzon Island using CW on 40 and 20 meters. It's reported he will visit another rare DU-land in the coming weeks. QSL to home call.

THAILAND, HS. Francois, TK5AE, is QRV til Sep 22 as either HS0/TK5AE or HS0AC. He is using CW and SSB, and can be found on 80 through 15 meters. QSL via home call.

KURE ISLAND, KH7. The Midway/Kure DX Foundation DXpedition should be QRV with the call AH0W/KH7K. The team will be traveling with wildlife scientists who are conducting a research project here. QSL via KE7LZ.

BRAZIL, PY. PP5LL will be QRV 80 to 10 meters, using CW and SSB, as PR5L from Sao Francisco Island, IOTA SA-027, from Sep 1-15. QSL to home call.

ALBANIA, ZA. Mike, K5KWG, is active as ZA1MH. He will be QRV on 160 to 2 meters using CW, SSB and RTTY. He is operating from a remote village where he is working as a missionary setting up radio communications. QSL via Z32KV.

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Excerpts from the Ohio/Penn Dx PacketCluster DX Bulletin N0. 320.

3W, CON DAO ISLAND (Vietnam). The 'DX News Sheet' reports Yuki, JI6KVR, will activate a new Vietnamese IOTA, Oct 14-20th. This island is in the Con Son Group (b). The callsign was not given.

QSL via JJ6LXX (JA) and EA5KB (others).

HV, VATICAN. With the efforts of IK0FVC and I0JBL look for HV4NAC to be active during the 1997 CQWW RTTY Contest (Sep 27-28). Other operators will include W6OTC, K6AW and W6OSP. Before the contest, look for activity on CW and SSB as time permits.

TY, BENIN. Sigi, DJ4IJ, is now active until Sep 19 as TY1IJ. Activity has been on 40 30 and 20 mtrs CW and SSB. QSL via DK8ZD.

VQ9, CHAGOS ISLANDS. Look for Pres, N6SS, to be active once again from here as VQ9SS. Activity will last until Nov. Look for him to be active on 160 meters. QSL via CBA.

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Society information

The Society may be contacted at : PO Box 860, Crows Nest 2065 Australia, for such matters as membership and general enquiries. Enquiries can also be made by packet to the President (Col) VK2CTD at VK2WI, or the Secretary (Pat) VK2JPA at VK2WI.

Email address for the Broadcast Officer is :
patl(at)conmusic.usyd.edu.au or patl(at)mail.users.usyd.edu.au

73s de Col VK2CTD Acting Broadcast Officer.
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Dave Horsfall (VK2KFU) | dave@esi.com.au | VK2KFU @ VK2KFU.NSW.AUS.OC | PGP 2.6
Opinions expressed are mine. | D8 15 71 F9 26 C8 63 40 5E 63 5C 65 FC A0 22 99